

[See all 72 Products in Family](#)

TECHSPEC® 50mm Dia. Linear Polarizing Film (XP42-18)



Stock #29-490 **3 In Stock**

⊖ 1 ⊕ S\$37⁴⁵

ADD TO CART

Volume Pricing	
Qty 1-10	S\$37.45 each
Qty 11-25	S\$32.90 each
Need More?	Request Quote

Product Downloads

General

Linear Polarizer **Type:**

Polarization axis is parallel to notch on polarizer edge **Note:**

Physical & Mechanical Properties

50.00 +0.0/-0.5 **Diameter (mm):**

0.19 ±0.03 **Thickness (mm):**

Polarizing Film

Construction:

Optical Properties

Coating:

Uncoated, Protective Film on Both Sides

Extinction Ratio:

9000:1 (nominal at 555nm)

Substrate: □

Polymer Film XP42-18

Transmission (%):

Single: 42 ±2
Parallel: 36.4
Crossed: <0.004 (nominal at 555nm)

Wavelength Range (nm):

400 - 700

Polarization Efficiency (%):

>99.98 (nominal at 555nm)

Transmission, Single (%):

42 ±2

Transmission, Parallel (%):

36.4

Transmission, Crossed (%):

<0.004 (nominal at 555nm)

Environmental & Durability Factors

Operating Temperature (°C):

-40 to +80

Heat Resistance (°C x Hours):

80 x 500

Cold Resistance (°C x Hours):

-40 x 500

Humidity Resistance (°C x Hours):

60 x 90% RH x 500

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 247:

[Compliant](#)

Product Details

- High Transmission of Unpolarized Light from 400 – 700nm
- Excellent Extinction Ratio of 9000:1
- Available in Custom Sizes
- [High-Temperature](#) Options Also Available

Ideal for a range of imaging applications, TECHSPEC® High Contrast Linear Polarizing Film (XP42) features an excellent extinction ratio and high transmission from 400 – 700nm. This polarizing film is offered in multiple thicknesses; thicker polarizing film has increased rigidity. Available in sheets, TECHSPEC® High Contrast Linear Polarizing Film (XP42) can be cut to fit any application need.

Note: Polarizer Film with adhesive available.

Immediate Custom Quotes Available

If you have a need for any round, square, or rectangular size of a TECHSPEC High Contrast Linear Polarizing Film (XP42) in dimensions between 3mm and 600mm, please visit our [Polarizing Film Tool](#). We'll provide an immediate quote, and can deliver the part to your requested size in approximately 3 weeks. A full list of standard manufacturing tolerances and restrictions are listed. For fully customized polymer polarizers to your requirements, visit our [Customized Polymer Polarizers Capabilities](#) page.

Technical Information



